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(54) COOKING UTENSIL FOR BAKING INGREDIENT**(57) Abstract:**

PURPOSE: To provide a lightweight and highly thermal conductive cooking utensil for a baking ingredient, allowing the easy removal of oil or a scorched material, by forming a passive state film of chromium oxide on the surface of a metallic base material smoothly polished in advance through a electrolytic polishing process, a fluidized abrasive grain polishing process, a mechanical polishing process or the like.

CONSTITUTION: This cooking utensil for a baking ingredient has a passive state film of chromium oxide on the surface of a metallic material smoothly polished in advance at an electrolytic polishing process, an electrolytic composite polishing process, a fluidized abrasive grain polishing process or the like. In this case, the metallic material is pertinently ferrite or austenite stainless steel, and aluminum or copper is preferably overlaid on the back thereof. For this type of the cooking

utensil, a stainless steel plate with electrolytically polished surface is prepared, and subjected to heat treatment for six hours at 550°C in 10%H₂-5ppm O₂/Ar atmosphere, thereby forming a Cr₂O₃ passive state film having thickness of approximately 200A and composed only of Cr and O.

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